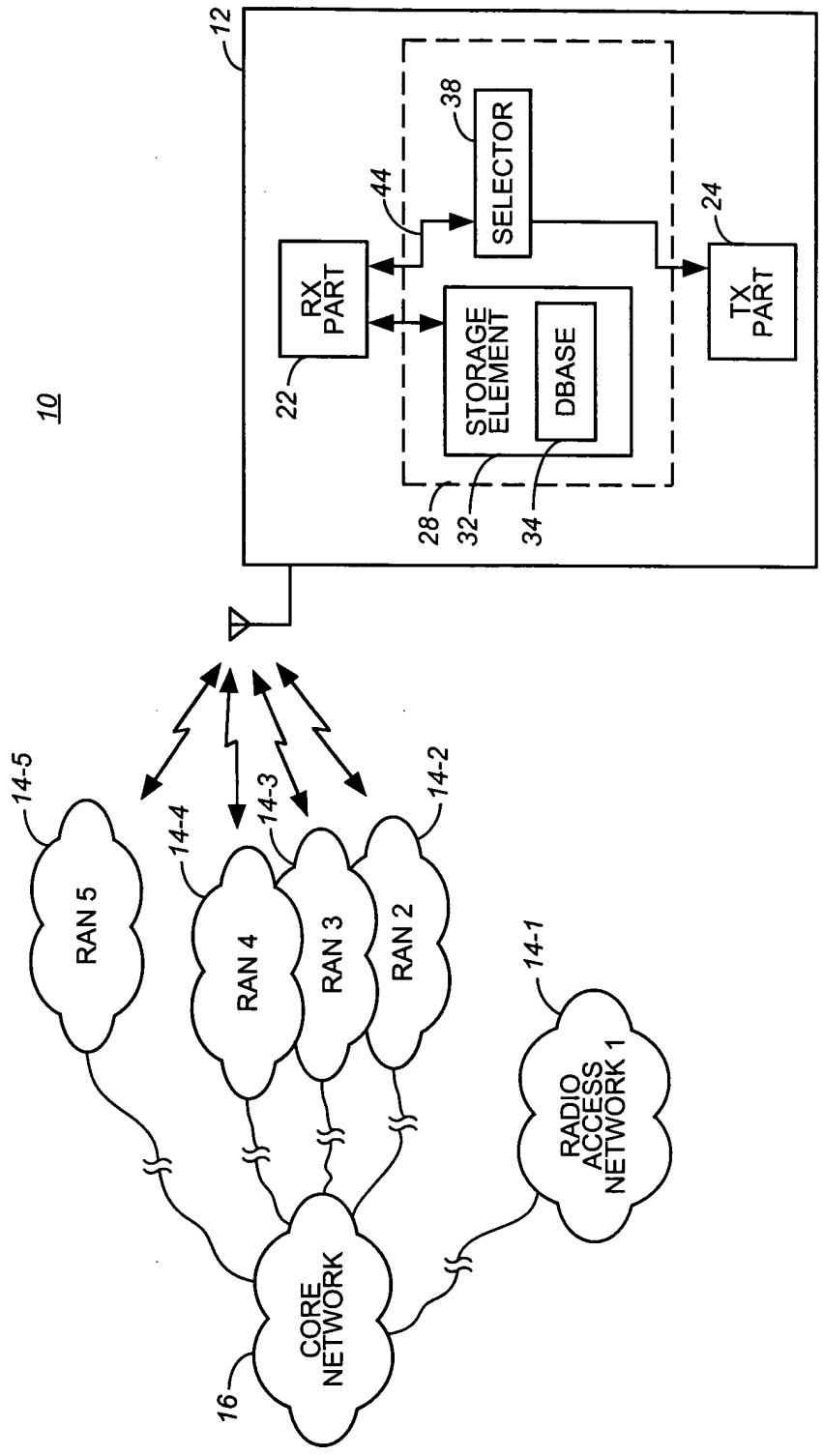
10
12
RX PART
22
STORAGE ELEMENT
DBASE
28
32
34
SELECTOR
38
44
TX PART
24
14-5
RAN 5
14-4
RAN 4
14-3
RAN 3
14-2
RAN 2
14-1
RADIO ACCESS NETWORK 1
CORE NETWORK
16

FIG. 1

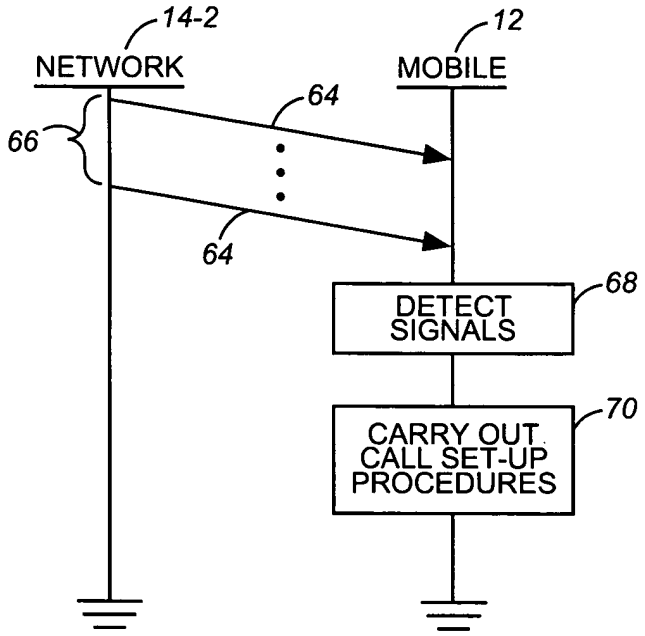

FIG. 2

	74 Network ID (11)		82 Voice Available (14)	84 Packet Data Available (15)	86 Network Available (16)
	76	78			
72	MCCa (12)	MNCa (13)	Yes	No	No (16)
72	MCCa	MNCb	Yes	Yes	Yes (17)
72	MCCa	MNCc	Yes	Yes	Yes

FIG. 3

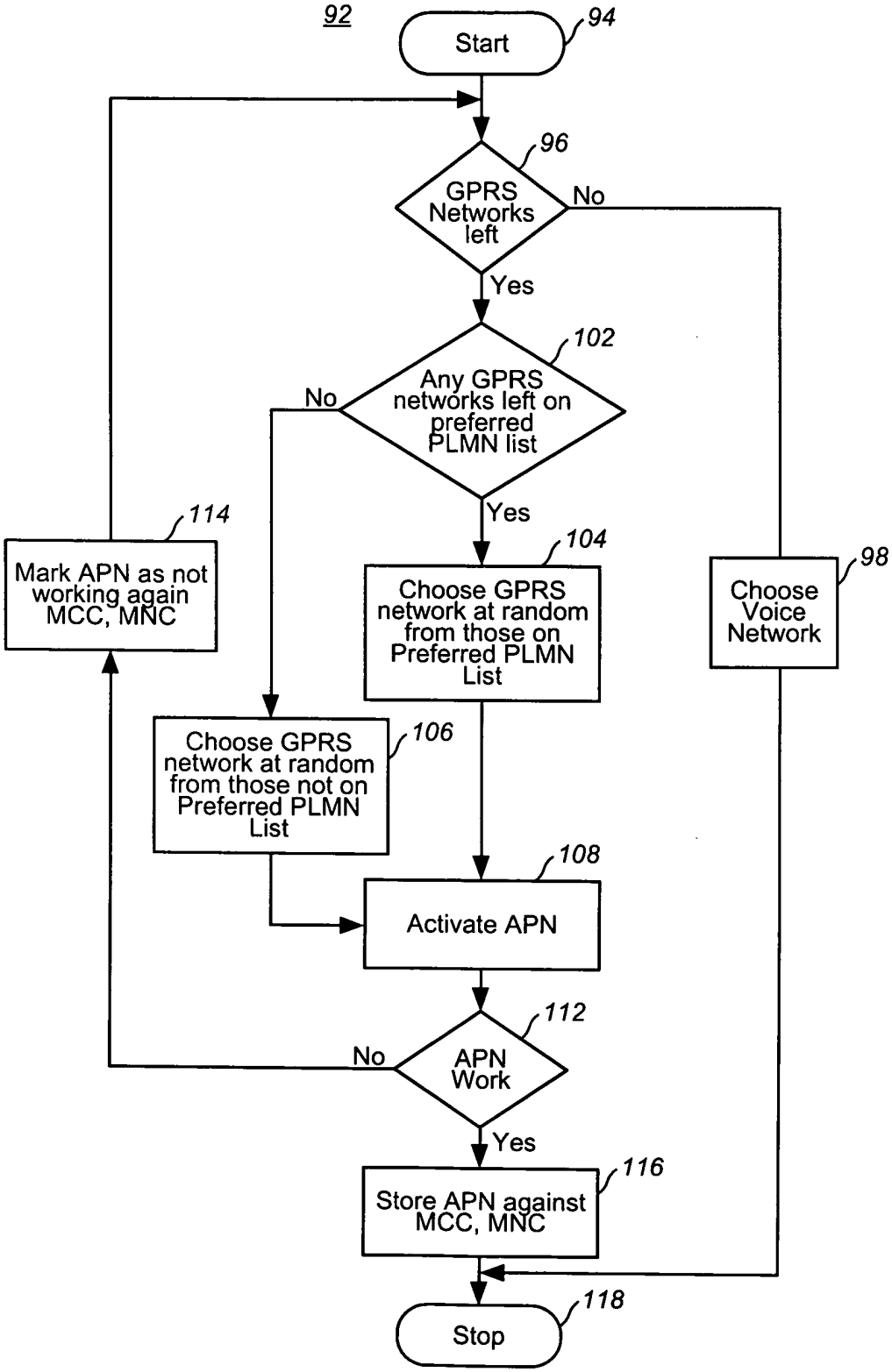
92
Start
94
96
GPRS Networks left
No
Yes
102
Any GPRS networks left on preferred PLMN list
No
Yes
114
Mark APN as not working again MCC, MNC
104
Choose GPRS network at random from those on Preferred PLMN List
98
Choose Voice Network
106
Choose GPRS network at random from those not on Preferred PLMN List
108
Activate APN
112
APN Work
No
Yes
116
Store APN against MCC, MNC
118
Stop

FIG. 4

	Network ID (74)		Voice Available (82)	Packet Data Available (84)	Packet data service available (122)
	MCCa (76)	MNCa (78)			
72	MCCa	MNCa	Yes	No	
72	MCCa	MNCb	Yes	Yes	Blackberry.net (no)
72	MCCa	MNCc	Yes	Yes	Blackberry.net (Yes)

FIG. 5

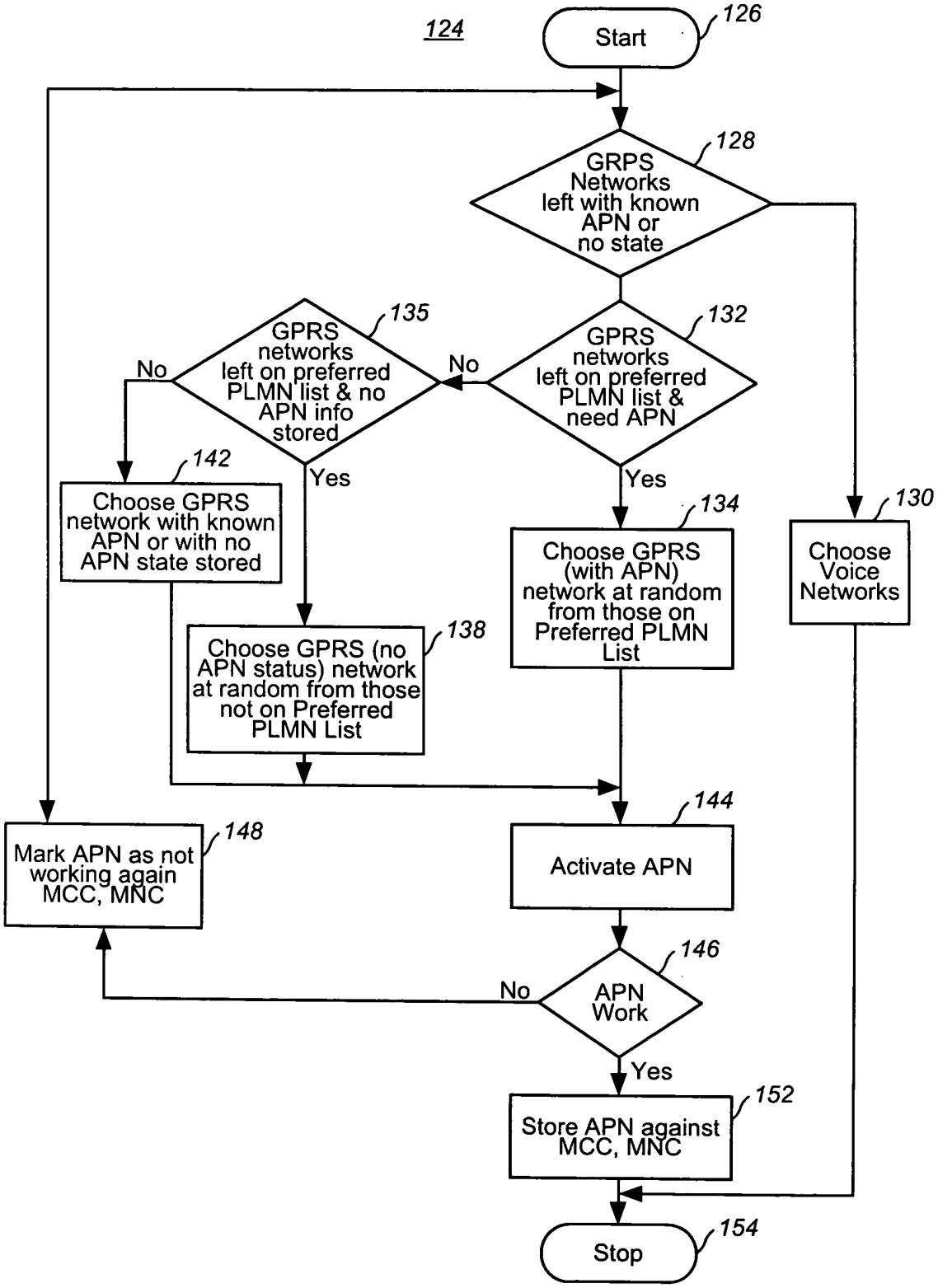
124
Start
126
GRPS Networks left with known APN or no state
128
GPRS networks left on preferred PLMN list & need APN
132
GPRS networks left on preferred PLMN list & no APN info stored
135
No
No
Yes
Yes
Choose GPRS network with known APN or with no APN state stored
142
Choose GPRS (no APN status) network at random from those not on Preferred PLMN List
138
Choose GPRS (with APN) network at random from those on Preferred PLMN List
134
Choose Voice Networks
130
Mark APN as not working again MCC, MNC
148
Activate APN
144
APN Work
146
No
Yes
Store APN against MCC, MNC
152
Stop
154

FIG. 6